

# C programming

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# Introduction

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C programming is a general-purpose, procedural, imperative computer programming language developed in 1972 by Dennis Ritchie at the Bell Telephone laboratories to develop the Unix operating system. C is the most widely used computer language.

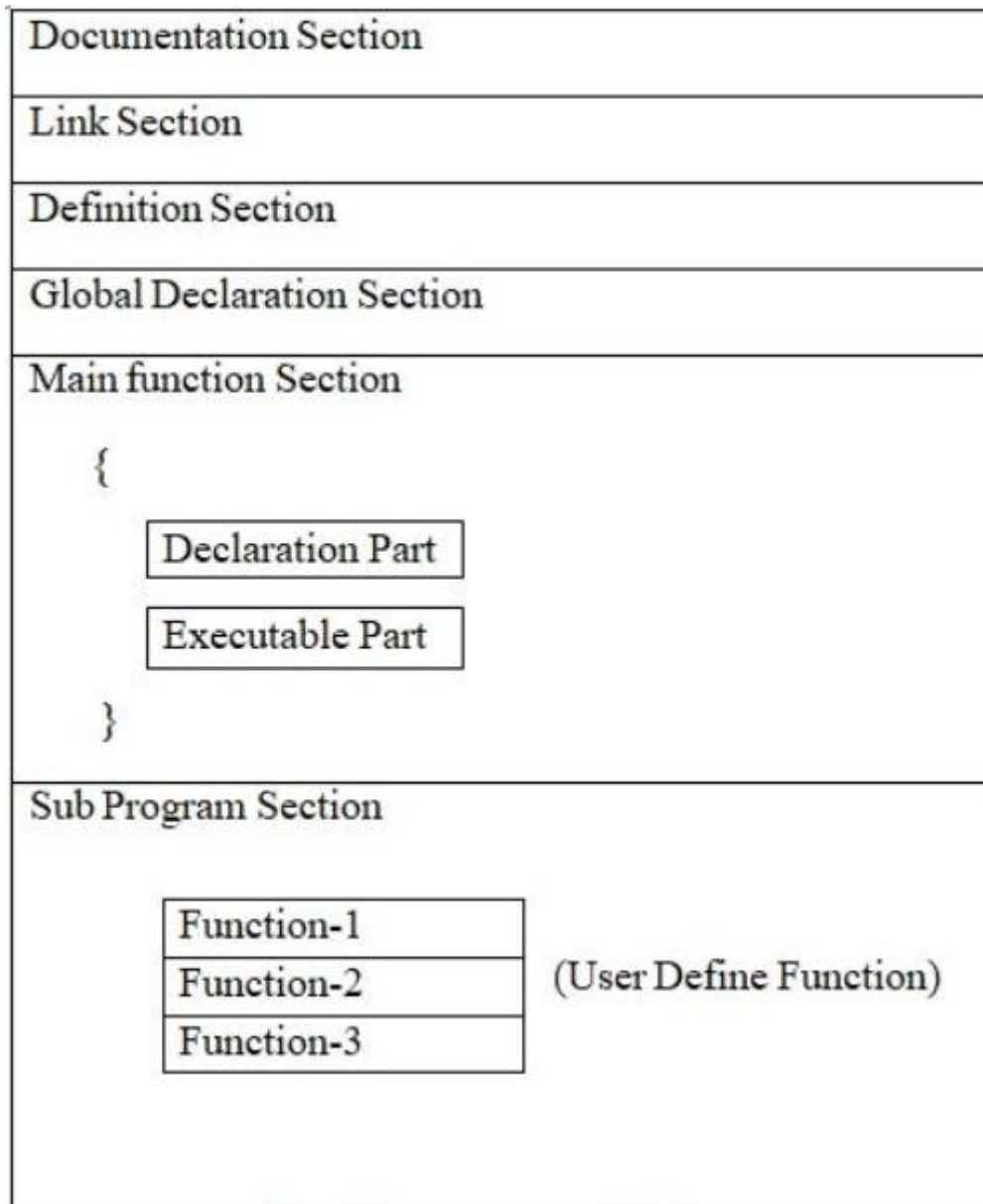
## **Facts about C**

1. C was invented to write an operating system called Unix.
2. C is a successor of B language which was introduced around the early 1970s.
3. This language was formalized in 1988 by the American National Standard Institute (ANSI).
4. The UNIX OS was totally written in C.
5. Today C is the most widely used popular System Programming Language.

## History of C language

1960	ALGOL	International group
1967	BCPL	Martin Richards
1970	B	Ken Thomson
1972	C	Dennis Ritchie
1978	K&R C	Kernighan & Ritchie
1989	ANSI C	ANSI Committee
1999	C99	Standard committee
2011	C11	Standard committee

# General Structure of C language



- The documentation section is used for displaying any information about the program like the purpose of the program, name of the author, date and time written and this section should be enclosed within comment lines. The statements in the documentation section are ignored by the compiler.
- The link section consists of the inclusion of header files.
- The definition section consists of macro definitions, defining constants etc.
- Anything declared in the global declaration section is accessible throughout the program, accessible to all the functions in the program.
- `main()` function is mandatory for any program and it includes two parts, the declaration part and the executable part.
- The last section, sub-program section is optional and used when we require including user defined functions in the program.